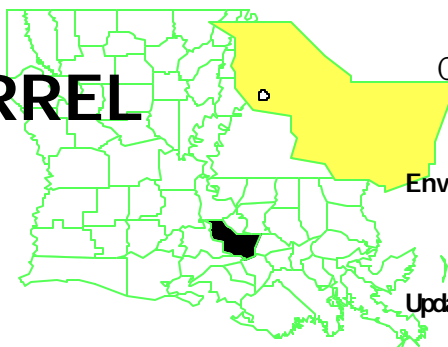


BAYOU SORREL LOUISIANA

EPA ID# LAD980745541



EPA REGION 6
CONGRESSIONAL DISTRICT 06
Iberville Parish

Other Names:
Environmental Purification Advancement
Halliburton Services (CLAW)
Grand River Pits (local name)

Updated February 2, 1999. Next update scheduled
for January 2000.

Site Description

- Location:** 20 miles SW of Baton Rouge, six miles north of the Town of Bayou Sorrel.
! Section 40-43, Township 10 South, Range 10 East, in Iberville Parish, Louisiana.
- Population:** ! Approximately 100 year round residents within 5 miles of site.
- Setting:** ! 50 acres of the 256 total site acreage used for wastes dumping.
! Site is surrounded by remote backswamp environment.
- Hydrology:** ! 75-125 feet of clays & silts beneath site.
! Below clays - sand, gravels & silts possibly to 700 ft. below land surface.
! This sand, silt and gravel layer is the Plaquemine aquifer.
! Ground water withdrawal from the Plaquemine aquifer is minimal, due to low population density and poor ground water quality.

Wastes and Volumes

Primary Contaminants:

- ! Process wastes from pesticide/herbicide manufacturing.
- ! Sulfide-containing wastes from hydrocarbon processing and exploration.
- ! Spent wash from boiler and process-equipment cleaning.

Volume:

- ! Approximately 1,000,000 cubic feet of contaminated soil and sediments.

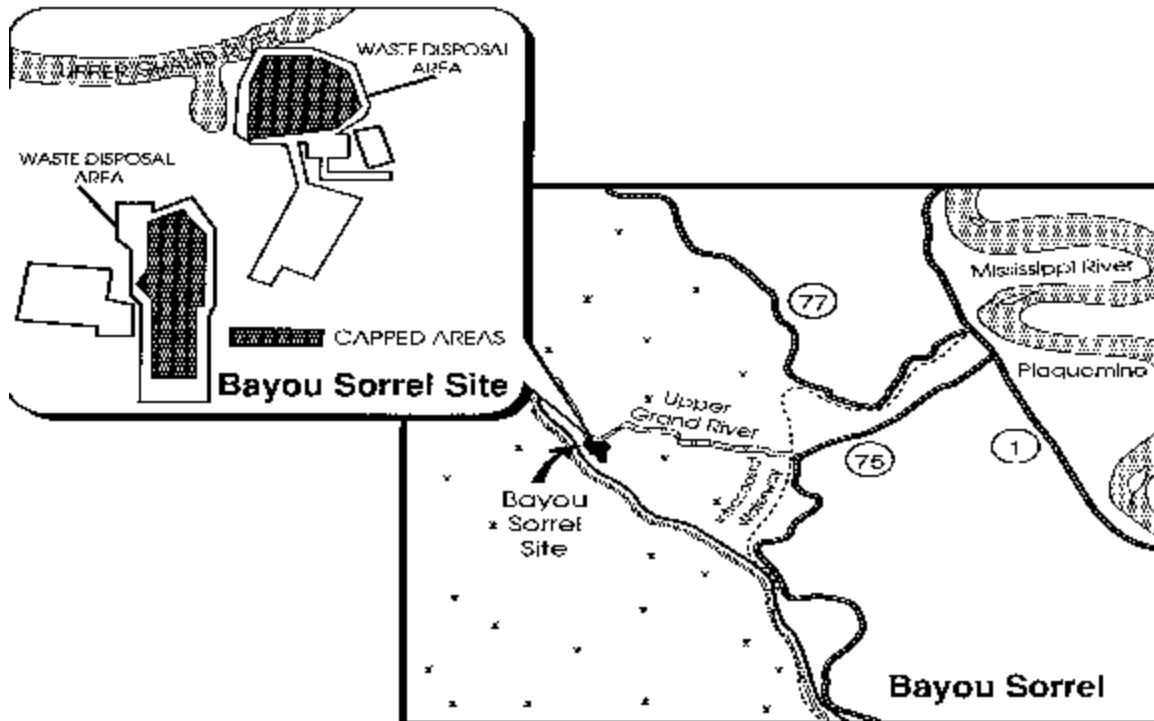
Site Assessment and Ranking

NPL LISTING HISTORY

Site HRS Score: 34.69
Proposed Date: 12/30/82
Final Date: 9/08/83
Proposed Deletion: 6/04/97
Deletion Date: 9/29/97

- ! The Potentially Responsible Party (PRP) challenged the ranking package with respect to the air score using an observed air release from four years prior. This release resulted in one death. No changes were made to the package.

Site Map and Diagram



The Remediation Process

Site History:

- ! 1977-1978: Site received wastes from Petrochemical Industries in LA, TX, AR, and MS. Site operated by EPAC, Inc., sister Company of CLAW, Inc. (Injection well)
- ! 1978-1979: Site closure overseen by Louisiana after death of a truck driver.
- ! 1981-1982: Louisiana Department of Environmental Quality (LDEQ) investigates site after complaints from area residents. EPA investigates, places site on NPL.
- ! 1983: Steering committee of 23 main waste contributors is formed. Other smaller parties later entered de minimis settlements with EPA.
- ! 1984-1986: Site studies and cleanup plan developed.
- ! 1987: Site soil cleanup plan negotiated.
- ! 1988-1989: Consent decree signed between parties for remedial design and remedial action (RD/RA). Remedial construction begins. Protective caps and slurry walls installed.
- ! 1990: Construction completed. Operations and Maintenance begins.
- ! Sep 30, 1993: The first 5-Year Review was completed.
- ! Sep 22, 1998: The second 5-Year Review was completed.

Health Considerations:

- ! Direct Contact: Exposure to contaminated soil/sediment
- ! Ground Water: Ingestion of contaminated source
- ! Surface Water: Ingestion of contaminated source

Other Environmental Risks:

- ! Same risks as above with respect to aquatic organisms and on site game animals.

Record of Decision

Signed: November 14, 1986

- ! Geomembrane cap with slurry walls, gas venting systems, and ground water monitoring.
- ! Remedy cost estimate: \$28,700,000.

Other Remedies Considered and Reason Not Chosen

- | | |
|-----------------------------------|------------------------------|
| 1. On site incineration | Takes 10-30 years, > \$200M |
| 2. Off site RCRA landfill | Not cost effective |
| 3. No Action | Not protective |
| 4. Clay cap (without geomembrane) | Poor long-term effectiveness |

Community Involvement

- ! Community Involvement Plan: Developed 06/84, revised 07/90.
- ! Open houses and workshops: 9/18/90, 9/91 (reconnaissance visit in preparation for ribbon cutting)
- ! Proposed Plan Fact Sheet and Public Meeting: 01/86.
- ! Milestone Fact Sheets: 7/88, 3/89, 3/90, 9/90, 6/4/97
- ! Citizens on site mailing list: 75
- ! Constituency Interest: Citizens supportive of EPA's efforts.
- ! Site Repository: Iberville Parish Library, Louisiana.

Technical Assistance Grant

- ! Availability Notice: 02/13/89
- ! Letters of Intent Received: None
- ! Grant Award: N/A

Contacts

- ! **Remedial Project Manager:** Stephen L. Tzhone, 214.665.8409, EPA (6SF-LP)
- ! **Site Attorney:** Keith Smith, 214.665.8509, EPA (6SF-DL)
- ! **Community Involvement:** Janetta Coats, 214.665.7308, EPA (6SF-PO)
- ! **State Coordinator:** Susan Jenkins, 214.665.6578, EPA (6SF-LT)
- ! **State Contact:** Rich Johnson, 504.765.0478, LDEQ (IASD)

Enforcement

- ! March 17, 1988: Consent Decree with settling PRPs for RD/RA lodged. \$800,000 for response costs prior to June 15, 1987 and up to \$1,885,000 for future oversight costs.
- ! July 26, 1989: Consent Decree with BFI for \$185,000 lodged.
- ! 1992: DOJ Referral issued for cost recovery from Cyril Hinds, recalcitrant former owner/operator.

Present Status and Issues

- ! Site is in long-term Operation & Maintenance: Ground water monitoring and Cap inspections are periodically conducted.

Benefits

- ! Over 1 million cubic feet of waste has been contained in a slurry wall, multilayered clay cap system. All contaminants have been contained and exposure potential has been eliminated.
- ! The remedy ensures protection of nearby sensitive environmental areas as well as protection of underlying aquifer used by thousands of people in the Parish.
- ! The remedy includes extensive monitoring to ensure protectiveness is maintained.
- ! The EPA continues to monitor the site to ensure that the site is safe and no longer poses a threat to public health or the environment.